

**APPENDIX N**

**REVISED FINANCIAL FEASIBILITY ANALYSIS**

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIREFIGHTING (ARFF) FACILITY**  
**TUSCON PUBLIC SAFETY ACADEMY (FOSSIL FUEL, TRADITIONAL METHOD)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$205,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.2460
1998	0.9070	\$71,870	\$0	\$59,075	0.4135
1999	0.8638	\$77,825	\$0	\$63,965	0.5348
2000	0.8227	\$84,270	\$0	\$69,265	0.6267
2001	0.7835	\$91,250	\$0	\$75,000	0.6987
2002	0.7462	\$91,250	\$0	\$75,000	0.7526
2003	0.7107	\$91,250	\$0	\$75,000	0.7945
2004	0.6768	\$91,250	\$0	\$75,000	0.8279
2005	0.6446	\$91,250	\$0	\$75,000	0.8551
2006	0.6139	\$91,250	\$0	\$75,000	0.8778
2007	0.5847	\$91,250	\$0	\$75,000	0.8968
2008	0.5568	\$91,250	\$0	\$75,000	0.9131
2009	0.5303	\$91,250	\$0	\$75,000	0.9271
2010	0.5051	\$91,250	\$0	\$75,000	0.9393
2011	0.4810	\$91,250	\$0	\$75,000	0.9500
2012	0.4581	\$91,250	\$0	\$75,000	0.9594
2013	0.4363	\$91,250	\$0	\$75,000	0.9678
2014	0.4155	\$91,250	\$0	\$75,000	0.9753
2015	0.3957	\$91,250	\$0	\$75,000	0.9821
2016	0.3769	\$91,250	\$0	\$75,000	0.9882
DISCOUNT RATE		5.00%			

$$B/C = PV(B) / [ PV(I) + PV(M) ]$$

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIREFIGHTING (ARFF) FACILITY**  
**TUSCON PUBLIC SAFETY ACADEMY (FOSSIL FUEL, BRITISH METHOD)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$216,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.2359
1998	0.9070	\$71,870	\$0	\$59,075	0.3993
1999	0.8638	\$77,825	\$0	\$63,965	0.5192
2000	0.8227	\$84,270	\$0	\$69,265	0.6108
2001	0.7835	\$91,250	\$0	\$75,000	0.6831
2002	0.7462	\$91,250	\$0	\$75,000	0.7375
2003	0.7107	\$91,250	\$0	\$75,000	0.7800
2004	0.6768	\$91,250	\$0	\$75,000	0.8139
2005	0.6446	\$91,250	\$0	\$75,000	0.8417
2006	0.6139	\$91,250	\$0	\$75,000	0.8648
2007	0.5847	\$91,250	\$0	\$75,000	0.8843
2008	0.5568	\$91,250	\$0	\$75,000	0.9010
2009	0.5303	\$91,250	\$0	\$75,000	0.9154
2010	0.5051	\$91,250	\$0	\$75,000	0.9279
2011	0.4810	\$91,250	\$0	\$75,000	0.9389
2012	0.4581	\$91,250	\$0	\$75,000	0.9487
2013	0.4363	\$91,250	\$0	\$75,000	0.9573
2014	0.4155	\$91,250	\$0	\$75,000	0.9651
2015	0.3957	\$91,250	\$0	\$75,000	0.9720
2016	0.3769	\$91,250	\$0	\$75,000	0.9783
DISCOUNT RATE		5.00%			

B/C = PV(B) / [ PV(I) + PV(M) ]

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIREFIGHTING (ARFF) FACILITY**  
**TUSCON PUBLIC SAFETY ACADEMY (PROPANE)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$601,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.0968
1998	0.9070	\$71,870	\$0	\$59,075	0.1817
1999	0.8638	\$77,825	\$0	\$63,965	0.2568
2000	0.8227	\$84,270	\$0	\$69,265	0.3236
2001	0.7835	\$91,250	\$0	\$75,000	0.3834
2002	0.7462	\$91,250	\$0	\$75,000	0.4334
2003	0.7107	\$91,250	\$0	\$75,000	0.4757
2004	0.6768	\$91,250	\$0	\$75,000	0.5119
2005	0.6446	\$91,250	\$0	\$75,000	0.5433
2006	0.6139	\$91,250	\$0	\$75,000	0.5707
2007	0.5847	\$91,250	\$0	\$75,000	0.5948
2008	0.5568	\$91,250	\$0	\$75,000	0.6161
2009	0.5303	\$91,250	\$0	\$75,000	0.6351
2010	0.5051	\$91,250	\$0	\$75,000	0.6521
2011	0.4810	\$91,250	\$0	\$75,000	0.6674
2012	0.4581	\$91,250	\$0	\$75,000	0.6812
2013	0.4363	\$91,250	\$0	\$75,000	0.6938
2014	0.4155	\$91,250	\$0	\$75,000	0.7052
2015	0.3957	\$91,250	\$0	\$75,000	0.7156
2016	0.3769	\$91,250	\$0	\$75,000	0.7251
DISCOUNT RATE		5.00%			

B/C = PV(B) / [ PV(I) + PV(M) ]

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIRE FIGHTING (ARFF) FACILITY**  
**WILLIAMS GATEWAY AIRPORT (FOSSIL FUEL, TRADITIONAL METHOD)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$240,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.2165
1998	0.9070	\$71,870	\$0	\$59,075	0.3716
1999	0.8638	\$77,825	\$0	\$63,965	0.4881
2000	0.8227	\$84,270	\$0	\$69,265	0.5788
2001	0.7835	\$91,250	\$0	\$75,000	0.6514
2002	0.7462	\$91,250	\$0	\$75,000	0.7066
2003	0.7107	\$91,250	\$0	\$75,000	0.7501
2004	0.6768	\$91,250	\$0	\$75,000	0.7851
2005	0.6446	\$91,250	\$0	\$75,000	0.8139
2006	0.6139	\$91,250	\$0	\$75,000	0.8379
2007	0.5847	\$91,250	\$0	\$75,000	0.8583
2008	0.5568	\$91,250	\$0	\$75,000	0.8758
2009	0.5303	\$91,250	\$0	\$75,000	0.8909
2010	0.5051	\$91,250	\$0	\$75,000	0.9041
2011	0.4810	\$91,250	\$0	\$75,000	0.9157
2012	0.4581	\$91,250	\$0	\$75,000	0.9260
2013	0.4363	\$91,250	\$0	\$75,000	0.9352
2014	0.4155	\$91,250	\$0	\$75,000	0.9434
2015	0.3957	\$91,250	\$0	\$75,000	0.9508
2016	0.3769	\$91,250	\$0	\$75,000	0.9575
DISCOUNT RATE		5.00%			

$$B/C = PV(B) / [ PV(I) + PV(M) ]$$

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIRE FIGHTING (ARFF) FACILITY**  
**WILLIAMS GATEWAY AIRPORT (FOSSIL FUEL, BRITISH METHOD)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST (B / C)
1996	1.0000	\$0	\$252,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.2080
1998	0.9070	\$71,870	\$0	\$59,075	0.3591
1999	0.8638	\$77,825	\$0	\$63,965	0.4739
2000	0.8227	\$84,270	\$0	\$69,265	0.5640
2001	0.7835	\$91,250	\$0	\$75,000	0.6366
2002	0.7462	\$91,250	\$0	\$75,000	0.6921
2003	0.7107	\$91,250	\$0	\$75,000	0.7360
2004	0.6768	\$91,250	\$0	\$75,000	0.7714
2005	0.6446	\$91,250	\$0	\$75,000	0.8006
2006	0.6139	\$91,250	\$0	\$75,000	0.8251
2007	0.5847	\$91,250	\$0	\$75,000	0.8458
2008	0.5568	\$91,250	\$0	\$75,000	0.8637
2009	0.5303	\$91,250	\$0	\$75,000	0.8791
2010	0.5051	\$91,250	\$0	\$75,000	0.8926
2011	0.4810	\$91,250	\$0	\$75,000	0.9045
2012	0.4581	\$91,250	\$0	\$75,000	0.9151
2013	0.4363	\$91,250	\$0	\$75,000	0.9245
2014	0.4155	\$91,250	\$0	\$75,000	0.9329
2015	0.3957	\$91,250	\$0	\$75,000	0.9405
2016	0.3769	\$91,250	\$0	\$75,000	0.9474
DISCOUNT RATE		5.00%			

$$B/C = PV(B) / [ PV(I) + PV(M) ]$$

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIRE FIGHTING (ARFF) FACILITY**  
**WILLIAMS GATEWAY AIRPORT (PROPANE)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$638,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.0916
1998	0.9070	\$71,870	\$0	\$59,075	0.1727
1999	0.8638	\$77,825	\$0	\$63,965	0.2449
2000	0.8227	\$84,270	\$0	\$69,265	0.3096
2001	0.7835	\$91,250	\$0	\$75,000	0.3679
2002	0.7462	\$91,250	\$0	\$75,000	0.4168
2003	0.7107	\$91,250	\$0	\$75,000	0.4585
2004	0.6768	\$91,250	\$0	\$75,000	0.4943
2005	0.6446	\$91,250	\$0	\$75,000	0.5254
2006	0.6139	\$91,250	\$0	\$75,000	0.5526
2007	0.5847	\$91,250	\$0	\$75,000	0.5766
2008	0.5568	\$91,250	\$0	\$75,000	0.5979
2009	0.5303	\$91,250	\$0	\$75,000	0.6170
2010	0.5051	\$91,250	\$0	\$75,000	0.6340
2011	0.4810	\$91,250	\$0	\$75,000	0.6494
2012	0.4581	\$91,250	\$0	\$75,000	0.6633
2013	0.4363	\$91,250	\$0	\$75,000	0.6759
2014	0.4155	\$91,250	\$0	\$75,000	0.6874
2015	0.3957	\$91,250	\$0	\$75,000	0.6979
2016	0.3769	\$91,250	\$0	\$75,000	0.7075
DISCOUNT RATE		5.00%			

B/C = PV(B) / [ PV(I) + PV(M)]

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIRE FIGHTING (ARFF) FACILITY**  
**CITY OF PHOENIX (FOSSIL FUEL, TRADITIONAL METHOD)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$372,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.1491
1998	0.9070	\$71,870	\$0	\$59,075	0.2689
1999	0.8638	\$77,825	\$0	\$63,965	0.3672
2000	0.8227	\$84,270	\$0	\$69,265	0.4493
2001	0.7835	\$91,250	\$0	\$75,000	0.5188
2002	0.7462	\$91,250	\$0	\$75,000	0.5742
2003	0.7107	\$91,250	\$0	\$75,000	0.6194
2004	0.6768	\$91,250	\$0	\$75,000	0.6569
2005	0.6446	\$91,250	\$0	\$75,000	0.6885
2006	0.6139	\$91,250	\$0	\$75,000	0.7154
2007	0.5847	\$91,250	\$0	\$75,000	0.7386
2008	0.5568	\$91,250	\$0	\$75,000	0.7588
2009	0.5303	\$91,250	\$0	\$75,000	0.7765
2010	0.5051	\$91,250	\$0	\$75,000	0.7922
2011	0.4810	\$91,250	\$0	\$75,000	0.8061
2012	0.4581	\$91,250	\$0	\$75,000	0.8185
2013	0.4363	\$91,250	\$0	\$75,000	0.8296
2014	0.4155	\$91,250	\$0	\$75,000	0.8397
2015	0.3957	\$91,250	\$0	\$75,000	0.8488
2016	0.3769	\$91,250	\$0	\$75,000	0.8570
DISCOUNT RATE		5.00%			

B/C = PV(B) / [ PV(I) + PV(M)]

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIRE FIGHTING (ARFF) FACILITY**  
**CITY OF PHOENIX (FOSSIL FUEL, BRITISH METHOD)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$382,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.1457
1998	0.9070	\$71,870	\$0	\$59,075	0.2634
1999	0.8638	\$77,825	\$0	\$63,965	0.3604
2000	0.8227	\$84,270	\$0	\$69,265	0.4418
2001	0.7835	\$91,250	\$0	\$75,000	0.5109
2002	0.7462	\$91,250	\$0	\$75,000	0.5662
2003	0.7107	\$91,250	\$0	\$75,000	0.6113
2004	0.6768	\$91,250	\$0	\$75,000	0.6489
2005	0.6446	\$91,250	\$0	\$75,000	0.6805
2006	0.6139	\$91,250	\$0	\$75,000	0.7076
2007	0.5847	\$91,250	\$0	\$75,000	0.7309
2008	0.5568	\$91,250	\$0	\$75,000	0.7512
2009	0.5303	\$91,250	\$0	\$75,000	0.7691
2010	0.5051	\$91,250	\$0	\$75,000	0.7848
2011	0.4810	\$91,250	\$0	\$75,000	0.7988
2012	0.4581	\$91,250	\$0	\$75,000	0.8113
2013	0.4363	\$91,250	\$0	\$75,000	0.8226
2014	0.4155	\$91,250	\$0	\$75,000	0.8327
2015	0.3957	\$91,250	\$0	\$75,000	0.8419
2016	0.3769	\$91,250	\$0	\$75,000	0.8503
DISCOUNT RATE		5.00%			

$$B/C = PV(B) / [ PV(I) + PV(M) ]$$

**BENEFIT / COST ANALYSIS**  
**AIRCRAFT RESCUE & FIRE FIGHTING (ARFF) FACILITY**  
**CITY OF PHOENIX (PROPANE)**

(CONSTANT 1995\$)

YEAR	COMPOUND INTEREST FACTOR	BENEFITS (B)	INVESTMENT COSTS (I)	OPERATION & MAINTENANCE COSTS (M)	BENEFIT/COST RATIO (B / C)
1996	1.0000	\$0	\$766,000	\$0	0.0000
1997	0.9524	\$66,375	\$0	\$54,555	0.0773
1998	0.9070	\$71,870	\$0	\$59,075	0.1473
1999	0.8638	\$77,825	\$0	\$63,965	0.2111
2000	0.8227	\$84,270	\$0	\$69,265	0.2693
2001	0.7835	\$91,250	\$0	\$75,000	0.3227
2002	0.7462	\$91,250	\$0	\$75,000	0.3683
2003	0.7107	\$91,250	\$0	\$75,000	0.4075
2004	0.6768	\$91,250	\$0	\$75,000	0.4417
2005	0.6446	\$91,250	\$0	\$75,000	0.4716
2006	0.6139	\$91,250	\$0	\$75,000	0.4981
2007	0.5847	\$91,250	\$0	\$75,000	0.5216
2008	0.5568	\$91,250	\$0	\$75,000	0.5426
2009	0.5303	\$91,250	\$0	\$75,000	0.5614
2010	0.5051	\$91,250	\$0	\$75,000	0.5784
2011	0.4810	\$91,250	\$0	\$75,000	0.5938
2012	0.4581	\$91,250	\$0	\$75,000	0.6078
2013	0.4363	\$91,250	\$0	\$75,000	0.6205
2014	0.4155	\$91,250	\$0	\$75,000	0.6322
2015	0.3957	\$91,250	\$0	\$75,000	0.6429
2016	0.3769	\$91,250	\$0	\$75,000	0.6527
DISCOUNT RATE		5.00%			

$$B/C = PV(B) / [ PV(I) + PV(M) ]$$